

TITLE OF THE INVENTION

Syringe Guide

CROSS-REFERENCE TO RELATED APPLICATIONS

This non-provisional application is related to the provisional application filed on 08/21/2003, application number 60/496,544

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not Applicable

REFERENCE TO SEQUENCE LISTING, A TABLE, OR A COMPUTER PROGRAM LISTING COMPACT DISC APPENDIX

Not Applicable

BACKGROUND OF THE INVENTION

The invention is technically related to the puncturing process when removing liquid medication from a vile using a syringe. It also analogically relates to the movement of the needle on a sewing machine during the first puncture, because the needle is guided.

BRIEF SUMMERY OF THE INVENTION

The Syringe Guide consists of a plastic pipe with a slit running the entire length. One end of the pipe has a greater diameter than the opposite end. A medication vile (head first) is placed at the end with the greater diameter and a syringe (needle end first) is placed in the end with the smaller diameter. The Syringe Guide helps minimize needle sticks and makes drawing medication from a vile faster and easier.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

The invention will be described in more detail using references to the appended drawings.

FIG. 1 depicts, an exploder assembly view of the Syringe Guide with the syringe and the vile.

FIG. 2 depicts, an assembly view of the Syringe Guide with the syringe and the vile.

FIG.3 depicts, an assembly view of the Syringe Guide with local sections and a magnified detail view of the puncturing area.

FIG. 4 depicts, the Syringe Guide and local sections.

DETAILED DESCRIPTION OF THE INVENTION

The Syringe guide is made of transparent plastic, more specifically from plastics used to manufacture medical devises that can be sterilized, using injection molding. Different dimensions of the Syringe Guide can be manufactured. Generally, the Syringe guide has been designed for use in emergency rooms, hospitals, clinics, and homes (administration of insulin). The advantages of this invention are that it makes aspiration of medication from a vile faster, safer cleaner, and easier. For example, when puncturing the vile with a needle one does not have to aim, the guide ensures that the needle punctures the center of the vile. In addition, when puncturing the vile one does not have to take caution with finger sticks because the guide forms a protective barrier around the syringe and the vile. Moreover, when the needle is inside the vile one does not have to hold the vile, one can aspirate the medication holding the syringe and the syringe plunger.

Furthermore, the Syringe Guide somewhat protects the needle against dust and airborne microbes by forming a barrier from the outside environment.

The following part will use the drawings to explain the invention in detail. The safety syringe FIG.1-1 consists of a plastic pipe. The pipe has a small diameter at one end and a larger diameter at the opposite end. The end of the guide with the large diameter has a length that is shorter than the length of the vial 3. The end with the smaller diameter has a length smaller than the length of the syringe 4 not including the needle. The end with the larger diameter is shorter than the end with the small diameter. FIG.2 shows the positions of the syringe, the vial, and the Syringe Guide when assembled.

The end with the bigger diameter FIG.1-1 has an internal diameter smaller than the external diameter of the vial 3. Also, the end with the smaller diameter has an internal diameter smaller than the external diameter of the syringe 4. This is done to ensure that when the syringe, Syringe Guide, and the vial are assembled FIG.2 the Syringe Guide will expand its slit FIG.1-2, and will grip the syringe and the vial.

The Syringe Guide is used in the following manner. After sanitizing the vial FIG.1-3, the vial is inserted into the Syringe Guide FIG.1-1 in the direction 5. Surface FIG.1-3a comes into contact with surface FIG.4-11 and the vial slides forward until surface FIG.3 magnified view G-7a it comes into contact with FIG.4-9 and stops. In order to insert the syringe in the Syringe Guide the Syringe Guide-vial assembly either has to be placed on a hard surface with the vial at the bottom or the assembly has to be held in one's hand with the vial being between the thumb and the index finger, followed by placing the thumb at the bottom of the vial to prevent the vial from slipping out. After